Proposed Project Components

CAP Terminus
CAP Terminus Alternative
Existing 36-inch line to Pima Mine Rd Recharge Facility
Connection to CAP at Pima Mine Rd Recharge Facility Turnout

Location of Booster Station to be Determined Along North-South Pipeline Reach

CWC Service Area
North Parcel Recharge Site
South Parcel (Preferred) Recharge Site

Figure 2
Proposed Project Components

CWC CAP Water Delivery System

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Figure 3
Proposed Jack & Bore Locations & Sites for Staging/Storing Materials

CWC CAP
Water Delivery System

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Figure 4
Proposed Alternative Recharge Locations

CWC/CAP Water Delivery System

North Parcel Recharge Site
15.7 ac

Storage Area
3.1 ac

South Parcel (Preferred) Recharge Site
17.9 ac

Proposed 36" Pipe

Proposed 20" Pipe

To Well #11
Figure 5
FICO-ANC Preliminary CAP
Water Delivery System

EXISTING 54" CAP
TIE INTO EXISTING CAP MAIN
CAP TURNOUT

SAHUARITA WATER COMPANY

EXISTING PIMA MINE ROAD RECHARGE

PIMA MINE ROAD

NEW 36" PHASE 1

NEW 36" PHASE 2

FARMER'S WATER COMPANY

NEW PUMP STATION PHASE 2

NEW 36" PHASE 2

EXISTING PIMA MINE ROAD RECHARGE

TURNOUTS TO FICO GSF

SAHUARITA ROAD

TIE INTO EXISTING CAP MAIN

LAS QUINTAS WATER COMPANY

PREFERRED CWC RECHARGE SITE

COMMUNITY WATER COMPANY

TURNOUTS TO FICO GSF

CONTINENTAL ROAD

GREEN VALLEY WATER COMPANY

NEW CAP PIPELINE PHASE 2

NEW CAP PIPELINE PHASE 3

QUAIL CREEK WATER COMPANY

PIMA MINE ROAD

HELMET PEAK ROAD SAHUARITA ROAD

NOGALES HIGHWAY

DUVAL MINE ROAD

DUVAL MINE ROAD

NEW CAP PIPELINE PHASE 3

CANOA RECHARGE BASIN

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Figure 6
Regional Subsidence

CWC/CAP
Water Delivery System

Preferred Recharge Site

02/23/2007 to 03/14/2008
Subsidence
0 to -0.2 in
-0.2 to -0.4 in
-0.4 to -0.8 in
-0.8 to -1.4 in

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Figure 7
Regional Ground Water Level Increase, Preferred Alternative (Case 2) vs. No Action (Case 1), No Rosemont Pumping

Contour of Projected Groundwater Level Change, in Feet, Due to CWC Recharge

Model No-Flow Grid Cell (Layer 3)

Existing Recharge Project Boundary

Preferred Recharge Site
Figure 8
Recharge Water Migration, Preferred Alternative

Well Location Within Projected Extent of Recharged Water Migration
Contour of Projected Groundwater Level Change of 1 Foot, Due to CWC Recharge
Projected Extent of Recharged Water Migration (determined using the particle path modeling)
Model No-Flow Grid Cell (Layer 3)
Existing Recharge Project Boundary

Preferred Recharge Site

CWC CAP
Water Delivery System

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Figure 9
Regional Ground Water Level Increase, Preferred Alternative (Case 5) vs. No Action (Case 4), with Rosemont Pumping

Contour of Projected Groundwater Level Change, in Feet, Due to CWC Recharge

Simulated Location for Rosemont Supply Well
Model No-Flow Grid Cell (Layer 3)
Existing Recharge Project Boundary
Rosemont Property

Preferred Recharge Site
Figure 10
Recharge Water Migration, Preferred Alternative with Rosemont Pumping

CWC CAP
Water Delivery System

- Simulated Location for Rosemont Supply Well
- Well Location Within Projected Extent of Recharged Water Migration
- Contour of Projected Groundwater Level Change of 1 Foot, Due to CWC Recharge
- Projected Extent of Recharged Water Migration (determined using the particle path modeling)
- Model No-Flow Grid Cell (Layer 3)
- Existing Recharge Project Boundary
- Rosemont Property

Preferred Recharge Site

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